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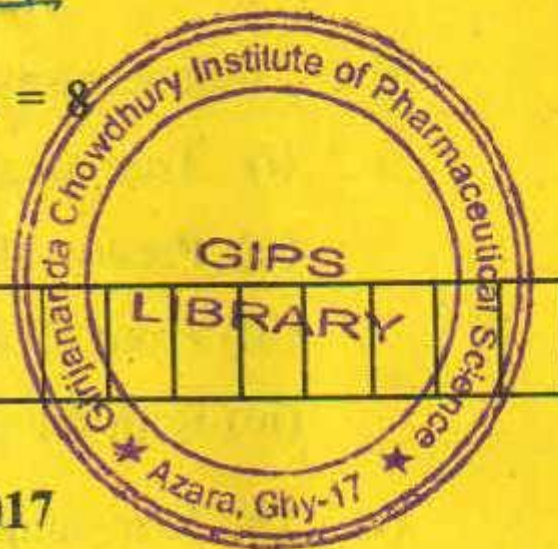
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2017



B. Pharm 8th Semester End-Term Examination

PHARMACOGNOSY - VI

(Industrial Pharmacognosy)

Full Marks – 100 Pass Marks – 35 Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer the following questions :

I. Write down the correct answer from the following options : (any *fifteen*) $1 \times 15 = 15$

(a) Solasodine is

- (i) Glyco alkaloid
- (ii) Indole alkaloid
- (iii) Poisonous alkaloid
- (iv) Both (i) and (iii)

[Turn over

(b) Tropane alkaloids are

- (i) True alkaloid
- (ii) Pseudo alkaloid
- (iii) Proto alkaloid
- (iv) Both (i) and (iii)

(c) The term totipotency means

- (i) Genetic ability of plant cell to produce the entire plant
- (ii) Habituation of callus
- (iii) Disease state of new plant
- (iv) None of above

(d) Prebiotic is resistant to

- (i) Proteases
- (ii) Lipases
- (iii) Amylase
- (iv) All of above

(e) Composition of thalloquin test

- (i) Bromine water and NH_3 solution
- (ii) HCL and NH_4OH
- (iii) Bromine water and HCL
- (iv) None of above

- (f) The common mydriatic alkaloids are
- (i) Atropine
 - (ii) Hyoscyamine
 - (iii) Scopolamine
 - (iv) All of above
- (g) In combination of auxin and cytokinin hormone used in culture medium for
- (i) Shoot proliferation
 - (ii) Root growth
 - (iii) Both (i) and (ii)
 - (iv) None of above
- (h) Cineol is the chief constituent of
- (i) Mentha oil
 - (ii) Lemon peel oil
 - (iii) Lemon grass oil
 - (iv) None of above

(i) Following which is not a microorganism

(i) *Lacidophyllus*

(ii) *Bacillus licheniformis*

(iii) *Candida utilis*

(iv) *Chicorium intybus*

(j) Lythraceae is the family of

(i) Olive

(ii) Ginkgo

(iii) Henna

(iv) Bhingraj

(k) The most common used carbon source in plant tissue culture media for the growth of dicot plant is

(i) Sucrose

(ii) Glucose

(iii) Fructose

(iv) None of the above

- (l) Cold cream is
- (i) O/W emulsion
 - (ii) W/O emulsion
 - (iii) Jellies
 - (iv) Mucilages
- (m) Dicotyledonous plants are
- (i) Herbaceous or woody
 - (ii) Shrubs
 - (iii) Leaves with net venation
 - (iv) Both (i) and (iii)
- (n) Family of peppermint is
- (i) Rubiaceae
 - (ii) Labiatae
 - (iii) Poaceae
 - (iv) Solanaceae
- (o) Vetiver oil is useful for the treatment of
- (i) Acne
 - (ii) Muscle pain
 - (iii) Spasm
 - (iv) All of the above

- (p) LDL level can be reduce by intake of
- (i) Safflower oil
 - (ii) Cod liver oil
 - (iii) Both (i) and (ii)
 - (iv) None of the above.

II. Match the column : 1×5=5

A	B
Vitamin A	Reach to colon in intact form
Dried beans	Antioxidant
Insulin	Soluble dietary fibre
Antiaging	Citral
Vitamin E	Tocopherol

III. Answer the following questions (any *five*) : 2×5=10

- (a) Explain the term Nutraceutical and cosmeceuticals.
- (b) Write down the composition of omega - 3 - fatty acids.
- (c) Mention the utilization of eucalyptus oil in aroma therapy.

- (d) Write down the significance of soluble and insoluble fibres as health food.
- (e) Why sub-culturing of callus is required?
- (f) Write down the principle of chemo-taxonomy of plant.

2. Answer the following questions (any *eight*) :

5×8=40

- (a) Discuss details on waste water treatment process.
- (b) Discuss the different sources of air pollution. What are the preventive measurements are there to reduce the air pollution ?
- (c) Discuss in detail the isolation process of volatile oil.
- (d) Write down the source of geraniol oil, vetiver oil, citral, hyoscyamine, solasodine.
- (e) Discuss the regulation regarding herbs as health food.
- (f) What are the benefits of plant tissue culture over conventional plant breeding ?
- (g) Write brief account on the basic requirement for tissue culture in laboratory.

- (h) Classify terpenoids with examples. Name some marketed product of volatile oil produce cooling sensation.
- (i) Explain the mechanism of action of antioxidant. Discuss the utilization of honey, mustard oil, carrot as health food.

3. Answer the following questions (any *three*) :

3×10=30

- (a) Explain protoplast culture with neat diagram. Enumerate the effects of plant hormones used in artificial plant tissue culture medium for the production of secondary metabolites with examples. 5+5=10
- (b) Write short notes on : 4+6=10
- (i) Herbal cosmetics
- (ii) Solid waste management
- (c) Explain the chemotaxonomy of carbohydrate. 10
- (d) Write down the details isolation procedure and identification test of quinine hydrochloride and diosgenin. 5+5=10